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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/089,992

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Jonathan Sharp

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EXAMINER

PHUONG, DAI

ART UNIT

PAPER NUMBER

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/089,992	<b>Applicant(s)</b> SHARP, JONATHAN	
	<b>Examiner</b> DAI A. PHUONG	<b>Art Unit</b> 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 March 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-12 and 14-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 and 14-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Argument***

1. Applicant's arguments, filed 03/06/2009, with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3, 6, 9-12, 14-16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riddiford (U.S. 6587675) in view of Inoue et al. (U.S. 6332024).

Regarding claim 1, Riddiford discloses a device (Fig. 1 and 2), comprising:

a body (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52);

a cover (casing 1) having a closed position for at least partially covering the body and an open position (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52); and

keys 12 and 40-43 (Fig. 1 and 5) accessible when the cover in closed position, one of the said keys being in a position remote from all other keys 12 and 40-43 (Fig. 1 and 5, col. 3, line 34 to col. 4, line 52), wherein

the function of the key is dependent upon the state of the device, and for at least on state of the device, operation of the key controls the provision of information on the display (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52). Riddiford discloses that when the unit is in closed

position, it is being used as cell phone; and when the unit is in opened position, it is being used as palmtop computer);

wherein the key is arranged to be active when the cover is in the closed position and inactive when the cover is in the open position, and wherein the key is located on the (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52. Riddiford discloses that when the unit is in closed position, it is being used as cell phone; and when the unit is in opened position, it is being used as palmtop computer).

However, Riddiford does not disclose one of keys being multifunctional.

In the same field of endeavor, Inoue et al. disclose one of keys being multifunctional 3 (fig. 1, col. 5, lines 1-42 and col. 8, lines 33-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the portable terminal of Riddiford by specifically including one of keys being multifunctional, as taught by Inoue et al., the motivation being in order to reduce a number of keys on the device or minimum entry keys.

Regarding claim 2, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. Further, Riddiford discloses a device further comprising a the display having a portion which is visible when the cover is in the closed position, and the key is operable to controls the provision of information on the portion of the display visible when the cover is in the closed position (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

Regarding claim 3, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. Further, Riddiford discloses a device which comprises a receiver Riddiford discloses.

Regarding claim 6, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. Further, Riddiford disclose a device which comprises a transmitter (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

Regarding claim 9, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. Further, Riddiford discloses a device wherein operation of the key is a single actuation (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

Regarding claim 10, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. Further, Riddiford discloses a device further comprising a hinge switch for detecting when the cover makes a specific acute angle with the body (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

Regarding claim 11, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 10. Further, Riddiford discloses a device further comprising a processor for detecting, via the hinge switch, when the cover is in the open position and when the cover is in the closed position (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

Regarding claim 12, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 11. Further, Riddiford discloses a device wherein the processor is arranged to disable the multifunctional key when the cover is in the open position (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

Regarding claim 14, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. Further, Riddiford discloses wherein the key is the only key disposed on a first surface of the cover (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52). Furthermore, Inoue et al. disclose wherein the multifunctional key (fig. 1, col. 5, lines 1-42 and col. 8, lines 33-40).

Regarding claim 15, Riddiford discloses a device comprising:

a body (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52);

a cover having a closed position for at least partially covering the body and an open position (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52); and

keys accessible when the cover is in the closed position, one of said keys being the only key disposed on a first surface of the cover (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52),

wherein: the function of the key is dependent upon the state of the device, and for at least one state of the device, operation of key controls the provision of information on the display, wherein the key is arranged to be active when the cover is in the closed position and inactive when the cover is in the open position (Fig. 1 and 2, col. 3, line 34 to col. 4, line 52).

However, Kumagai et al. do not disclose one of keys being multifunctional.

In the same field of endeavor, Inoue et al. disclose one of keys being multifunctional 3 (fig. 1, col. 5, lines 1-42 and col. 8, lines 33-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the portable terminal of Riddiford by specifically including one of

keys being multifunctional, as taught by Inoue et al., the motivation being in order to reduce a number of keys on the cell phone or minimum entry keys on the cell phone.

Regarding claim 16, this claim is rejected for the same reason as set forth in claim 2.

Regarding claim 21, this claim is rejected for the same reason as set forth in claim 9.

4. Claim 4 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riddiford in view of Inoue et al. (U.S. 6332024) and further in view of Amin (U.S. 6006087).

Regarding claim 4, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. However, the combination of Riddiford and Inoue et al. do not disclose a device wherein, when the device is in a state corresponding to the receipt of a message, the key is operable to controls the provision of information corresponding to the message.

In the same field of endeavor, Amin discloses a device wherein, when the device is in a state corresponding to the receipt of a message, the key is operable to controls the provision of information corresponding to the message (col. 1, line 59 to col. 2, line 10).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the portable terminal of the combination of Riddiford and Inoue et al. by specifically including a device wherein, when the device is in a state corresponding to the receipt of a message, the key is operable to controls the provision of information corresponding to the message, as taught by Amin, the motivation being in order to review a specific message by pressing a button.

Regarding claim 17, this claim is rejected for the same reason as set forth in claim 4.

5. Claim 5 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riddiford in view of Inoue et al. (U.S. 6332024) and further in view of Botzas (U.S. 7236772).

Regarding claim 5, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. However, the combination of Riddiford and Inoue et al. do not disclose a device wherein, when the device is in a state corresponding to the receipt of a missed call, the key is operable to controls the provision of information corresponding to the missed call.

In the same field of endeavor, Amin discloses a device wherein, when the device is in a state corresponding to the receipt of a missed call, the key is operable to controls the provision of information corresponding to the missed call (col. 1, lines 15 to 53).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the portable terminal of the combination of Riddiford and Inoue et al. by specifically including a device wherein, when the device is in a state corresponding to the receipt of a missed call, the key is operable to controls the provision of information corresponding to the missed call, as taught by Botzas, the motivation being in order to place outgoing call based upon receiving information.

Regarding claim 18, this claim is rejected for the same reason as set forth in claim 5.

6. Claim 7 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riddiford in view of Inoue et al. (U.S. 6332024) and further in view of Hawkins et al. (U.S. 6516202).



Regarding claim 7, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. However, the combination of Riddiford and Inoue et al. do not disclose a device wherein, when the device is in an idle state, the key is operable to controls the provision of information corresponding to the last number dialed.

In the same field of endeavor, Hawkins et al. disclose a device wherein, when the device is in an idle state, the key is operable to controls the provision of information corresponding to the last number dialed (col. 8, line 32-68).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the portable terminal of the combination of Riddiford and Inoue et al. by specifically including a device wherein, when the device is in an idle state, the key is operable to controls the provision of information corresponding to the last number dialed, as taught by Hawkins et al., the motivation being in order to generate numbers to dial.

Regarding claim 19, this claim is rejected for the same reason as set forth in claim 7.

7. Claim 8 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riddiford in view of Inoue et al. (U.S. 6332024) and further in view of Kim (U.S. 6519475).

Regarding claim 8, the combination of Riddiford and Inoue et al. disclose all the limitations in claim 1. However, the combination of Riddiford and Inoue et al. do not disclose a device arranged for coupling to a headset, and when the device is in a headset coupled state, key is operable to controls the provision of information corresponding to the last number dialed.

In the same field of endeavor, Kim discloses a device arranged for coupling to a headset, and when the device is in a headset coupled state, the key is operable to controls the provision of information corresponding to the last number dialed (col. 3, lines 48-54).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the portable terminal of the combination of Riddiford and Inoue et al. by specifically including a device arranged for coupling to a headset, and when the device is in a headset coupled state, the key is operable to controls the provision of information corresponding to the last number dialed, as taught by Kim, the motivation being in order to provide the operational mode of the mobile phone to change from the telephone mode to the idle mode in response to the second mode signal.

Regarding claim 20, this claim is rejected for the same reason as set forth in claim 8.

### ***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nguyen (U.S. 5797089) a mobile phone and personal digital assistant

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dai A Phuong whose telephone number is 571-272-7896. The examiner can normally be reached on Monday to Friday, 9:00 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-7503.

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/Dai A Phuong/  
Examiner, Art Unit 2617  
Date: 04/30/2009

/Patrick N. Edouard/  
Supervisory Patent Examiner, Art Unit 2626